PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2023-06-05-01**	**Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura	
Agency	:	Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094	
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	20-03-23	
Type of Mix	:	BM (Bituminous Macadam)	
Date of Test	:	20-03-23	

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.2		
Strength	Aggregate Impact Value	25.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.51	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.17	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

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BBMP, Bangalore

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-06-05-01** **Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura
Agency	:	Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-23
Type of Mix	:	BM(Bitumnous Macadam)
Date of Test	:	20-03-23
Type of Binder	:	60/70
% of Binder Used	:	3.4%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	6.8gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore

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Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-06-05-01** **Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura
Agency	:	Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-23
Type of Mix	:	BM (Bituminous Mecadam)
Date of Test	:	20-03-23

The results of the tests conducted on the Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

* The results obtained are satisfactory as per standard requirements.

Note:-

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BBMP, Bangalore

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Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-06-05-01** **Date: 24-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura
Agency	:	Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-04-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-04-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	290	290	5.8	94.2	90-100
3	10 mm	2823	3113	62.3	37.7	25-55
4	4.75 mm	1570	4683	93.7	6.3	0-10
5	Pan	317	5000	100	0	_

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Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-06-05-01** **Date: 24-04-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-06-05-01** **Date: 24-04-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-04-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 20-04-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	30	30	3.0	97.0	90-100	90-100	90-100	95-100
3	2.36 mm	60	90	9.0	91.0	60-95	75-100	85-100	95-100
4	1.18 mm	230	320	32.0	68.0	30-70	55-90	75-100	90-100
5	600 micron	205	525	52.5	47.5	15-34	35-59	60-79	80-100
6	300 micron	207	732	73.2	26.8	5-20	8-30	12-40	15-50
7	150 micron	188	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-06-05-01** **Date: 24-04-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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BBMP, Bangalore

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Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-06-05-01** **Date: 27-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura
Agency	:	Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	25-03-23
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	95	95	1.9	98.1	90-100
9.5	710	805	16.1	83.9	70-88
4.75	880	1685	33.7	66.3	53-71
2.36	587	2272	45.4	54.6	42-58
1.18	450	2722	54.4	45.6	34-48
0.6	510	3232	64.6	35.4	26-38
0.3	535	3767	75.3	24.7	18-28
0.15	478	4245	84.9	15.1	12-20
0.075	355	4600	92.0	8.0	4-10
PAN	399	4999	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-06-05-01** **Date: 28-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura
Agency	:	Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	25-03-23

Type of Binder	:	60/70
% of Binder Used	:	6.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	12.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-
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Technical Manager

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : **CP-RW-2023-06-05-01** **Date: 28-03-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-03-23

Type of Mix : BC (Bituminous Concrete)

Date of Test : 25-03-23

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-06-05-01** **Date: 28-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura
Agency	:	Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	25-03-23

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

* The results obtained are satisfactory as per standard requirements.

Note:-

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Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2023-06-05-01** **Date: 03-04-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Date of Receipt : 01-04-23

Type of Mix : BC (Bituminous Concrete)

Date of Test : 01-04-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	472	471.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	6.00	6.10
7	Average percentage	%	6.05	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-RW-2023-06-05-01** **Date: 03-04-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	60	67	14.2	85.8	70-88
4.75	110	177	37.5	62.5	53-71
2.36	85	262	55.5	44.5	42-58
1.18	30	292	61.9	38.1	34-48
0.6	11	303	64.2	35.8	26-38
0.3	46	349	73.9	26.1	18-28
0.15	40	389	82.4	17.6	12-20
0.075	55	444	94.1	5.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	65	70	14.8	85.2	70-88
4.75	110	180	38.2	61.8	53-71
2.36	86	266	56.4	43.6	42-58
1.18	29	295	62.6	37.4	34-48
0.6	13	308	65.3	34.7	26-38
0.3	48	356	75.5	24.5	18-28
0.15	43	399	84.6	15.4	12-20
0.075	41	440	93.3	6.7	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-06-05-01** **Date: 03-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura
Agency	:	Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-23
Type of Mix	:	Tack coat
Date of Test	:	01-04-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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Authorized Signatory
Technical Manager

End of Report

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-06-05-01**	**Date: 01-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidvaranvapura	
Agency	:	Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094	
Customer Reference	:	BBMP/EE/BTP/WO/56/2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	31-03-23	
Type of Mix	:	BM (Bituminous Macadam)	
Date of Test	:	31-03-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	485	484.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	3.4	3.50
7	Average percentage	%	3.45	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Lab ID : **CP-RW-2023-06-05-01** **Date: 01-04-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 485 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	35	35	7.2	92.8	90-100
13.2	145	180	37.1	62.9	56-88
4.75	191	371	76.5	23.5	16-36
2.36	29	400	82.5	17.5	4-19
0.3	48	448	92.4	7.6	2-10
0.075	20	468	96.5	3.5	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 484.5 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	34	34	7.0	93.0	90-100
13.2	143	177	36.5	63.5	56-88
4.75	190	367	75.7	24.3	16-36
2.36	29	396	81.7	18.3	4-19
0.3	45	441	91.0	9.0	2-10
0.075	15	456	94.1	5.9	0-8

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Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-05-01** **Date: 09/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	149.05 X 151.65 X 149.42	22604	8.893	582.8	25.8	25.3
2	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	150.68 X 151.94 X 150.01	22895	8.335	598.5	26.1	
3	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	149.72 X 150.43 X 149.47	22523	8.994	540.6	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-05-01** **Date: 30/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	149.17 X 149.63 X 149.10	22320	8.606	745.4	33.4	33.2
2	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	149.44 X 149.50 X 151.16	22342	8.491	726.1	32.5	
3	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	149.07 X 151.66 X 151.96	22609	8.625	763.1	33.8	

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Lab ID : **CP-2023-06-05-01** **Date: 09/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	149.76 X 149.39 X 149.77	22373	8.920	572.5	25.6	25.6
2	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	149.75 X 151.86 X 150.50	22741	8.285	593.8	26.1	
3	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	150.71 X 149.27 X 149.60	22496	8.649	561.3	25.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-05-01** **Date: 30/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	149.76 X 150.09 X 151.91	22479	8.453	752.9	33.5	33.2
2	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	151.19 X 151.74 X 150.56	22942	8.284	744.3	32.4	
3	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	149.37 X 149.94 X 150.95	22397	8.225	755.7	33.7	

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Lab ID : **CP-2023-06-05-01** **Date: 09/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.48 X 151.48 X 149.58	22946	8.643	581.3	25.3	25.5
2	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.67 X 150.51 X 150.98	22828	8.534	596.8	26.1	
3	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.05 X 149.51 X 150.84	22583	8.411	564.5	25.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-05-01** **Date: 30/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	149.33 X 149.73 X 149.03	22359	8.839	743.0	33.2	33.1
2	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.31 X 150.07 X 149.96	22557	8.564	729.5	32.3	
3	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.29 X 149.62 X 150.05	22486	8.368	761.1	33.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-05-01** **Date: 09/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.08 X 149.83 X 150.66	22636	8.214	583.1	25.8	25.6
2	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.40 X 151.96 X 150.70	23008	8.412	614.7	26.7	
3	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.37 X 151.28 X 150.79	22899	8.517	560.0	24.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-05-01** **Date: 30/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	151.31 X 149.79 X 150.97	22665	8.600	769.3	33.9	33.0
2	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	151.60 X 151.76 X 150.93	23006	8.582	738.2	32.1	
3	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	149.93 X 149.91 X 150.61	22477	8.831	743.1	33.1	

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-05-01** **Date: 09/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.92 X 150.78 X 151.73	22906	8.563	579.3	25.3	25.4
2	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	151.97 X 149.44 X 150.80	22711	8.386	598.0	26.3	
3	Cement Concrete Pavement	M30	02/05/2023	09/05/2023	149.19 X 149.90 X 150.84	22365	8.791	551.4	24.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-05-01** **Date: 30/05/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K V Subba Reddy, No:106/B,Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer's Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-05-23

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	151.53 X 149.36 X 151.09	22633	8.539	755.6	33.4	33.3
2	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	149.70 X 151.08 X 149.05	22617	8.972	742.4	32.8	
3	Cement Concrete Pavement	M30	02/05/2023	30/05/2023	150.15 X 150.90 X 150.10	22657	8.301	764.5	33.7	

* The results obtained are satisfactory as per standard requirements.

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FOR CIVIL Pro.
R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2023-04-01-03** **Date: 04-04-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Thindlu and Kodigehalli Surrounding areas in ward No.09 Vidyaranyapura

Agency : Sri.K.V Subba Reddy, No:106/B, Ashwatha Nagar, RMV 2nd Stage Bangalore-560094

Customer Reference : BBMP/EE/BTP/WO/56/2021-22

Source of Sample : Sample supplied by Agency

Date of Receipt : 01-04-23

Type of Mix : BC (Bituminous Concrete) - 1st Main Road VMS layout

Date of Test : 03-04-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	472	471
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1} \times 100$	6.00	6.20
7	Average percentage	%	6.10	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-RW-2023-04-01-03** **Date: 04-04-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	90-100
9.5	60	60	12.7	87.3	70-88
4.75	155	215	45.6	54.4	53-71
2.36	45	260	55.1	44.9	42-58
1.18	45	305	64.6	35.4	34-48
0.6	15	320	67.8	32.2	26-38
0.3	30	350	74.2	25.8	18-28
0.15	45	395	83.7	16.3	12-20
0.075	50	445	94.3	5.7	4-10
PAN	27	472	100.0	0.0	-

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	10	10	2.1	97.9	90-100
9.5	52	62	13.2	86.8	70-88
4.75	112	174	36.9	63.1	53-71
2.36	88	262	55.6	44.4	42-58
1.18	29	291	61.8	38.2	34-48
0.6	11	302	64.1	35.9	26-38
0.3	46	348	73.9	26.1	18-28
0.15	45	393	83.4	16.6	12-20
0.075	55	448	95.1	4.9	4-10
PAN	23	471	100.0	0.0	-

* The results obtained are satisfactory as per standard requirements.

Note:-

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FOR CIVIL Pro.
★R.KARTHIK RECHAN
Authorized Signatory
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